ABSTRACT

In terms of evaluation of 2G mobile networks in a coverage problem areas become important thing to note. Because the parameters of cellular network coverage of this performance can be seen from the area coverage can be served well. Of course, with regard to the value parameter of coverage that must be in accordance with established standards. The problem that occurs is when the value of the parameter standard coverage (Rx level) do not conform to the standards set by an operator, it will cause problems that can interfere with the service of the network in an area which is becoming an area of coverage of a BTS site.

Using a case study in the area of Semarang and focuses on the problem Coverage Area for 2G networks Telkomsel will be activities such as Telkomsel 2G network performance evaluation is problematic in terms of coverage area. 2G network performance evaluation activities carried out by, among others: Implementation of Test Drive, reporting problems, problem analysis, optimization and implementation of the results of the evaluation and optimization of such calculations can be simulated with software.

With the help of software TEMS and MapInfo software used as the software for the drive test and manufacture of reporting, while the optimization it self is an act to analyze the problem and also make a decision to fix the problems that occur coverage. Expected after the evaluation result in the form of a solution is to be done to improve the coverage previously considered bad for the better and of course the results of this optimization will be given to the operator as an alternative to maximize cellular network performance.

Keywords: Drive Test, Optimization, Coverage, 2G, Rx level, TEMS, Mapinfo